

Biotinylated Recombinant Human CD38 Protein

Catalog No.: RP00553B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 952 P28907-1

Tags

C-His&Avi

Synonyms

ADPRC 1; T10; CD38; ADP-ribosyl cyclase 1; cADPr hydrolase 1; CD38 molecule; EC 2.4.99.20; EC 3.2.2.6

Product Information

Source

Purification

HEK293 cells

≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

32.50 kDa 42-50 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

CD38 (cluster of differentiation 38), also known as cyclic ADP ribose hydrolase, is a transmembrane glycoprotein found on the surface of some immune cells including plasma cells, activated or immature T and B cells, monocytes, and natural killer cells. CD38 participates in cell adhesion, signal transduction and calcium signaling.

Basic Information

Description

Biotinylated Recombinant Human CD38 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val43-Ile300) of Human CD38 (Accession #P28907-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20° C. Store the lyophilized protein at -20° C to -80° C up to 1 year from the date of receipt.

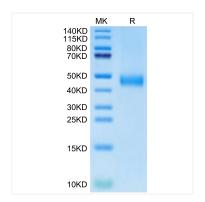
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

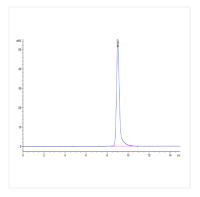
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

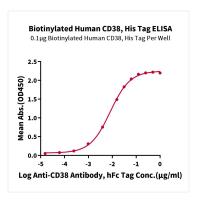
Validation Data



Biotinylated Recombinant Human CD38 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human CD38 is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human CD38, His Tag at 1 μ g/mL (100 μ L/well) on the streptavidin precoated plate(5 μ g/mL). Dose response curve for Anti-CD38 Antibody, hFc Tag with the EC₅₀ of 8.1ng/mL determined by ELISA.